BRUHATH BANGALORE MAHANAGARA PALIKE

Yalahanka ELECTRICAL DIVISION

PRE MEASUREMENT BOOK

Name of work :-Annual Maintenance and repairs of street lights in ward no 03 & 04 Park Package Y -12 of Yelahanka Zone.

Name of Contractror of nature of Agency:-M/s United Engineers

Job Code No:-003-22-000022

Ref no and Date of commencement of work:-:- EE/Ele/YZ//WO/000012 /22-23 Date:01/04/2022

Aggrement No & date:-

Measurement Book No: 2607/23-24 **Page No:** 260658 to 260661

Bill NO :- 14th RA Bill **Bill Period : 01-01-2024 to 31-01-2024 (for 1 months)**

Sl. No.	Description	Unit	Period 1 Month	Present Measurements		
				Qty	Tender Full Rate	Cost
1	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for various type of street lighting systems as detailed below.i) Poles with 36/40 W fluorescent tube light street lighting system.	Each	1	0	50.00	0.00
2	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 125 W HPMV light Park lighting system.	Each	1	710	66.25	47037.50
3	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 250W HPSV light street lighting system.	Each	1	5	83.33	416.65
4	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for with 400W HPSV street light/High Mast lighting systems.	Each	1	38	83.33	3166.54
5	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 70 watt HPMH park lighting systems.	Each	1	50	58.33	2916.50

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6	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 250 watt HPMH park lighting systems	Each	1	47	91.66	4308.02
7	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents 400 watts HPMH street light/High Mast lighting systems.	Each	1	35	95.83	3354.05
8	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB protective surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 24 watt LED streetlight lighting system	Each	1	179	75.00	13425.00
9	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB protective surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 65 watt LED streetlight lighting system	Each	1	6	92.50	555.00
10	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB protective surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 90 watt LED streetlight lighting system	Each	1	0	104.16	0.00
11	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB protective surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 110/120 watt LED streetlight lighting system	Each	1	0	125.00	0.00
12	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) 100Amps 25kA.	Nos	-	10	5500.00	55000.00

6/2/24

13	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm		Mtrs	-	387	125.00	48375.00
14	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 6 sqmm to 16 sqmm		Mtrs	-	387	76.00	29412.00
15	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary)		Mtrs	-	350	10.00	3500.00
	Address/Pole Number	**Distance**					
	Valmiki Park						
	SLVES/03/DP/TC10/37/MV to SLVES/03/DP/TC10/38/MV	20 Mtr					
	SLVES/03/DP/TC10/38/MV to SLVES/03/DP/TC10/39/MV	22 Mtr					
	SLVES/03/DP/TC10/40/MV to SLVES/03/DP/TC10/41/MV	40 Mtr					
	SLVES/03/DP/TC10/41/MV to SLVES/03/DP/TC10/42/MV	22 Mtr					
	Shivaram Karantha Park Main Circuit to Timer Box SLVES/03/TC10/SBC/01/00/42/MV	50 Mtr					
	Srikantayya Park						
	SLVES/03/VP/TC10/08/MV to SLVES/03/VP/TC10/09/MV to SLVES/03/VP/TC10/10/MV	40 Mtr					
	SLVES/03/VP/TC10/20/MV to SLVES/03/VP/TC10/21/MV	17 Mtr					
	SLVES/03/VP/TC10/34/MV to SLVES/03/VP/TC10/37/MV to SLVES/03/VP/TC10/39/MV to SLVES/03/VP/TC10/42/MV	63 Mtr					
	SLVES/03/VP/TC10/49/MV to SLVES/03/VP/TC10/96/MV	18 Mtr					
	SLVES/03/VP/TC10/88/MV to SLVES/03/VP/TC10/90/MV	25 Mtr					
	SLVES/03/VP/TC10/84/MV to SLVES/03/VP/TC10/82/MV	20 Mtr					
	SLVES/03/VP/TC10/63/MV to SLVES/03/VP/TC10/66/MV	20 Mtr					
	Rajeev Ghandhi Park						
	SLVES/04/RMV/TC26/09/MV to SLVES/04/RMV/TC26/08/MV to SLVES/04/RMV/TC26/07/MV	30 Mtr					
	Total	387 Mtrs					
16	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete.16SWG		Sqcms	-	180000	0.30	54000.00
	Nethaji Subhash Chandra Bose Park,Shivaram Karantha Park ,Yogi Vemmanna Park and Sri Chowdeshwari Park	For 4 Panel Box					
17	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.100 to 125Amps		Nos	-	13	4000.00	52000.00

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	Address / Pole Number	**Qty**					
	Kittur Rani Chennamma Park	1					
	Valmiki Park	1					
	Srikantayya Park	1					
	Gowthama Bhuddha Park	1					
	Panchakshari Gavayi Park	1					
	Rajiv Ghandhi Park	1					
	Darabendre Park	1					
	Nethaji Subhash Chandra Bose Park	1					
	Shivaram Karantha Park	1					
	Yogi Vemmanna Park	1					
	Sri Chowdeshwari Park	1					
	Ambha Bhavani park						
	Sardar Vallabhabhai Patel Park	1					
	Total	**13**					
18	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers.		Each	-	11	2400.00	26400.00
	Address / Pole Number	**Qty**					
	Kittur Rani Chennamma Park	1					
	Valmiki Park	1					
	Gowthama Bhuddha Park	1					
	Ambha Bhavani park	1					
	Sardar Vallabhabhai Patel Park	1					
	Rajiv Ghandhi Park	1					
	Darabendre Park	1					
	Nethaji Subhash Chandra Bose Park	1					
	Shivaram Karantha Park	1					
	Yogi Vemmanna Park	1					
	Sri Chowdeshwari Park	1					
	Total	**11**					
19	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 50-63 Amps SP		Each	-	0	700.00	0.00
20	Supply of LED pole mounting type post top lantern with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/ clear glass material, delivering superior light output.Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/Overload, short circuit/ miss-wiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB . LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in- house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.LED Post Top Lantern with 35 watts		Nos	-	10	6200.00	62000.00
	Address / Pole Number	**Qty**					
	Kittur Rani Chennamma Park Ward No 03						
	SLVES/03/BP/TC10/06/MV	1					

	SLVES/03/BP/TC10/21/MV	1					
	SLVES/03/BP/TC10/04/MV	1					
	SLVES/03/BP/TC10/54/MV	1					
	SLVES/03/BP/TC10/31/MV	1					
	Mahatma Ghandhi Park Ward No 04						
	SLVES/04/MGP/TC127/07/MV	1					
	SLVES/04/MGP/TC127/05/MV	1					
	SLVES/04/MGP/TC127/07/MV	1					
	SLVES/04/MGP/TC127/23/MV	1					
	SLVES/04/MGP/TC127/0926/MV	1					
	Total	**10**					
	TOTAL						75179.26
	Add GST 18 % = 12%+6% on item no 1-9				-12%	9021.51	66157.75
					18%	11908.39	**78066.14**
	Total Rs item no 10-20						330687.00
	Add GST 18 % on item no 10-20						59523.66
	TOTAL Rs						**468276.8**
	Fine imposed for non burning of street lights For the period of 1/01/2024 to 31/01/2024						2500.00
	As per street light agreement clause 2% will be deducted in monthly maintenance bill against the released scrap material						1561.32
	GRAND TOTAL						**464215.48**

CERTIFICATE

1.This is to certify that the work done is saticefactorily.

2.This is to certify that the bill amount calimed in this bill does not claimed in any of the previous bill.

Junior Engineer(Elec)
Yalahanka Division

Asst.Exe.Engineer(Elec)
Yalahanka Division